



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/700,196	11/03/2003	Herve Brelay	03-1732 1496.00347	3945

24319 7590 06/06/2006

LSI LOGIC CORPORATION  
1621 BARBER LANE  
MS: D-106  
MILPITAS, CA 95035

EXAMINER
----------

YENKE, BRIAN P

ART UNIT	PAPER NUMBER
----------	--------------

2622

DATE MAILED: 06/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/700,196

Applicant(s)

BRELAY, HERVE

Examiner

BRIAN P. YENKE

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo et al., US 7,012,648.

In considering claims 1 and 10,

*a) the claimed a deinterlacer circuit...* is met by progressive scanning converter 102 which convert a received interlaced image at 50fps into a progressive image (Fig 1a, 7a, 9a).

*b) the claimed a rate converter...* is met by frame frequency converter 103 which converts the 50 fps progressive signal via 102 into a 30 fps progressive signal.

However, Kondo does not disclose the conventional practice of synchronization.

Synchronization in display/video systems are notoriously well known in order to provide a coherent/synchronized system accounting for delays/conversions/different frequencies between the audio and video signals, in order to provide the user a audio which coincides with the applicable video picture.

Therefore, the examiner takes "OFFICIAL NOTICE" regarding such practice, for the reasons/motivation as noted above. In the event the applicant wishes to traverse such notice, the examiner would like the applicant to review the attached references cited.

In considering claims 2, 8 and 14,

Kondo discloses that the frequency converted progressive signal (i.e. at 30 fps or 60 fps) is converted into an interlaced signal via 104.

In considering claims 3 and 11,

Kondo discloses that either a PAL signal (i.e. 50 Hz) is converted into an NTSC signal (60 Hz) or vice-versa, and the conversion of a progressive signal (i.e. 50 fps) to either a 30fps or 60fps progressive signal. Although, Kondo does not explicitly disclose a first progressive rate of 60 Hz and a 2<sup>nd</sup> of 50 Hz, those frequencies as noted above are established and the conversion of one frequency to another are known procedures in a display system which provide the user/designer the ability to increase/decrease the rate of information, and thus the claim is rejected since the conversion of frequencies regardless of which is 1<sup>st</sup> or 2<sup>nd</sup> derives no unexpected results in the operation.

In considering claim 6,

Kondo does not disclose the conventional practice of comparing timestamps of received signals and repeating or dropping frames based upon the comparison between the timestamps and a clock which is widely used since the received signals include timestamps which can be synchronized to an internal/local clock for display/synchronization, thus the examiner takes "OFFICIAL NOTICE" regarding such practice, for the advantages as noted above. In the event the applicant wishes to traverse such notice, the examiner would like the applicant to review the attached references cited.

In considering claims 4-5, 7, 12-13 and 15,

Kondo does not disclose the image size (horizontal/vertical) where it is known that an image can be scaled via horizontally and/or vertically, based upon the type of signals received, type of display format required and thus the conversion of sizes between video signals is notoriously well known, and the conversion of such signals produces no unexpected results. The examiner thus takes "OFFICIAL NOTICE" regarding such conventional practice as noted above. . In the event the applicant wishes to traverse such notice, the examiner would like the applicant to review the attached references cited.

In considering claim 9,

Kondo disclose the displaying of digital image data.

***Conclusion***

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure—see newly cited references on attached form PTO-892.
3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (571)272-7359. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, David L. Ometz, can be reached at (571)272-7593.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

**(571)-273-8300**

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is  
(703)305-HELP.

General information about patents, trademarks, products and services offered by the United States Patent and Trademark Office (USPTO), and other related information is available by contacting the USPTO's General Information Services Division at:  
800-PTO-9199 or 703-308-HELP  
(FAX) 703-305-7786  
(TDD) 703-305-7785

An automated message system is available 7 days a week, 24 hours a day providing informational responses to frequently asked questions and the ability to order certain documents. Customer service representatives are available to answer questions, send materials or connect customers with other offices of the USPTO from 8:30 a.m. - 8:00p.m. EST/EDT, Monday-Friday excluding federal holidays.

For other technical patent information needs, the Patent Assistance Center can be reached through customer service representatives at the above numbers, Monday through Friday (except federal holidays) from 8:30 a.m. to 5:00 p.m. EST/EDT.

The Patent Electronic Business Center (EBC) allows USPTO customers to retrieve data, check the status of pending actions, and submit information and

applications. The tools currently available in the Patent EBC are Patent Application Information Retrieval (PAIR) and the Electronic Filing System (EFS).

PAIR (<http://pair.uspto.gov>) provides customers direct secure access to their own patent application status information, as well as to general patent information publicly available.

EFS allows customers to electronically file patent application documents securely via the Internet. EFS is a system for submitting new utility patent applications and pre-grant

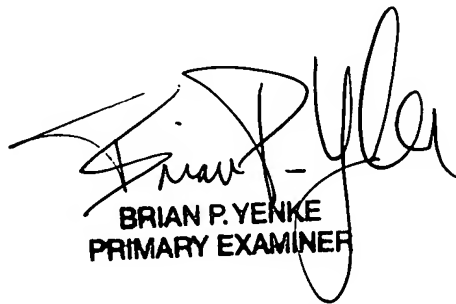
publication submissions in electronic publication-ready form. EFS includes software to help customers prepare submissions in extensible Markup Language (XML) format and

to assemble the various parts of the application as an electronic submission package. EFS also allows the submission of Computer Readable Format (CRF) sequence listings for

pending biotechnology patent applications, which were filed in paper form.



B.P.Y  
03 June 2006



BRIAN P. YENKE  
PRIMARY EXAMINER